

|                           |                               |                                                                                     |
|---------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| 21700150                  | <b>DATA SHEET</b>             |  |
| Valid from:<br>10.02.2025 | <b>ETHERLINE® GUARD PM03T</b> |                                                                                     |

## Description

- ETHERLINE® GUARD enables lifetime monitoring of data lines (100Base-TX) with focus on dynamic applications
- Feedback of the expected service life via status LED
- Alarm limit value individually adjustable (life time 99 - 50 %)
- Compact design, also suitable for use in decentralized control cabinets (mounting on DIN rail possible)
- Suitable for integration into IIoT structures via MQTT interface (including status/data evaluation, settings, updates)



## General characteristics

Interfaces & Buttons

**LAN:** 1x RJ45: 10/100BaseTX, IEEE802.3u, HTTPS, MQTT V3.1.1

**DATA:** 2x RJ45: 100BaseTX, IEEE802.3u

**SET-Button:** Setting of various functions

**SD-Slot:** 1x microSDHC (FAT32, max. 32 GByte)

Status indicators

**LEDs:** PWR (Power), STATUS (Status), CON (Connect)

Temperature range

Ambient temp.: -25°C to +65°C (-13°F to 149°F)  
transport - and storage temp.: -40°C to +85°C (-40°F to 185°F)

Relative humidity (max.)

95 % (non-condensing)

Pollution degree

2

MTBF (mean time between failures)

10,9 years @ MIL-HDBK-217F

Minimum length of the monitored line

>= 2 m

## Variation

| Article  | Description           | Type |
|----------|-----------------------|------|
| 21700150 | ETHERLINE GUARD PM03T | LAN  |

## Power requirements

Connection

5-pole terminal block: GND, VCC, FE, Q1, Q2

Reverse polarity protection

present

Input voltage

24 V DC (18-30V DC, SELV and limited energy circuit)

Power Consumption (max.)

1.92 W

Input current (max.) @ +24 V DC

75 mA (without load on Q1, Q2)

Outputs (Q1 / Q2)

Q1: Push-Pull (NO) / Q2: Push-Pull (PWM)

Max. current: 0.2 A

overload voltage protection: present

short circuit protection: present

|                                           |                                       |             |
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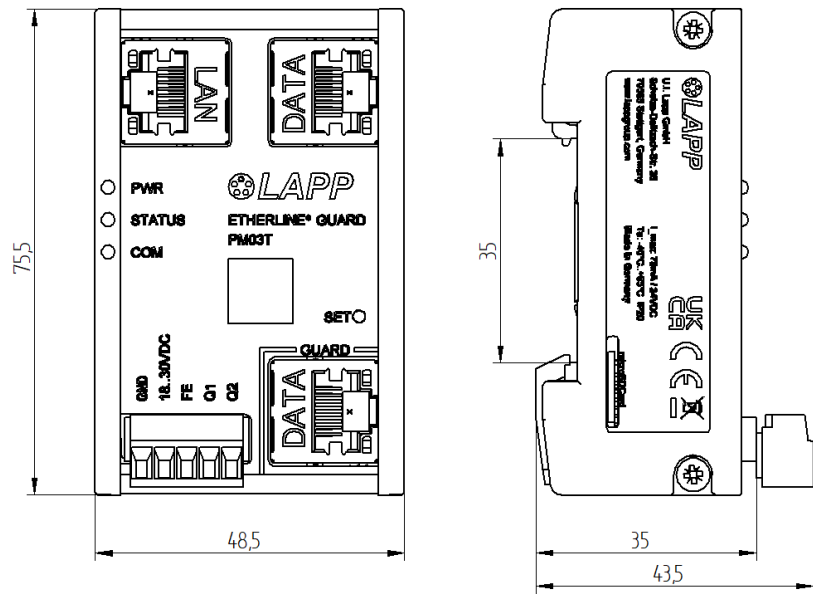
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### Physical properties

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| IP class (acc. EN 60529)             | IP20                                     |
| Protection class (acc. DIN EN 61140) | III                                      |
| Weight                               | 0.11 kg                                  |
| Installation                         | Mounting on DIN-rail (acc. DIN EN 60715) |

### Technical drawing

Dimensional drawing



### Standards and approvals

|           |                        |
|-----------|------------------------|
| EMC       | DIN EN 61000-6-2       |
|           | DIN EN 61000-6-4       |
| Vibration | acc. DIN EN 60068-2-6  |
| Shock     | acc. DIN EN 60068-2-27 |
| Free fall | acc. DIN EN 60068-2-31 |
| Approvals | CE                     |
|           | UL (E331560)           |
|           | FCC                    |

### Application range

In 100Base-TX Ethernet-based networks in the field of automation, where transmission that is insensitive to interference must be ensured.

### Note

Photographs are not to scale and do not represent detailed images of the respective products.

|                                           |                                       |             |
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